CLAIMS

What is claimed is:

1. A method for manufacturing an on-chip inductor consisting of:

creating at least one dielectric layer;

creating at least one conductive winding on the at least one dielectric layer; and

creating a P-well having a major surface parallel to a major surface of the dielectric layer.

2. The method of claim 1 further consists of:

creating a field oxide having a major surface that is juxtaposed to the major surface of the P-well.

3. The method of claim 1 further consists of:

creating the at least one dielectric layer to include one layer; and

creating the at least one conductive winding to include a spiral winding on the one layer.

4. The method of claim 1 further consists of:

creating the at least one dielectric layer to include a plurality of layers; and

creating the at least conductive winding to include a plurality of single windings one the plurality of layers.

5. The method of claim 1 further consists of:

creating the at least one dielectric layer to include a plurality of layers; and

creating the at least conductive winding to include a plurality of spiral windings one the plurality of layers.

6. The method of claim 1 further consists of:

creating a substrate having a major surface parallel to the major surface of the at least one dielectric layer.

7. The method of claim 1 further consists of:

creating a secondary winding magnetically coupled to the conductive winding.

8. The method of claim 1, wherein the at least one conductive winding further consists of:

creating a center tap operably coupled to a reference potential to produce a differential inductor.

9. A method for manufacturing an on-chip inductor consisting of:

creating at least one dielectric layer;

creating at least one conductive winding on the at least one dielectric layer; and

creating a field oxide layer having a major surface parallel to a major surface of the dielectric layer.

10. The method of claim 9 further consists of:

creating a P-well having a major surface that is juxtaposed to the major surface of the field oxide layer.

11. The method of claim 9 further consists of:

creating a secondary winding magnetically coupled to the conductive winding.

12. The method of claim 9, wherein the at least one conductive winding further consists of:

creating a center tap operably coupled to a reference potential to produce a differential inductor.

13. A method for manufacturing an on-chip inductor consisting of:

creating at least one dielectric layer;

creating at least one conductive winding on the at least one dielectric layer; and

creating poly silicon layer having a major surface parallel to a major surface of the dielectric layer.

14. The method of claim 13 further consists of:

creating a secondary winding magnetically coupled to the conductive winding.

15. The method of claim 13, wherein the at least one conductive winding further consists of:

creating a center tap operably coupled to a reference potential to produce a differential inductor.